



## DD15™ Service Information

**NUMBER:** 08 DD15-13 **S.M. REF.:** 11.1 **ENGINE:** EPA07 DD15 **DATE:** November 2008

**SUBJECT:** VALVE LASH ADJUSTMENTS

**PUBLICATION:** DDC-SVC-MAN-0002

Valve lash adjustments procedure was updated.

### 11.1 VALVE LASH ADJUSTMENTS

Accurate adjustment of clearance between intake and exhaust valves is important if maximum performance and economy are to be obtained.

The valve lash on the DD15 engine must be measured and if necessary, adjusted at the initial period listed in Table 1.

**NOTE:**

Everytime the valve lash is adjusted the engine brake lash will also need to be set. Refer to section 11.1.2 "Setting the Engine Brake Lash."

**NOTE:**

Adjust the valve lash before setting the engine brake lash.

<b>NOTICE:</b>
Failure to measure valve clearances at the required initial period and make necessary adjustments may result in gradual degrading of engine performance and reduced fuel combustion efficiency.

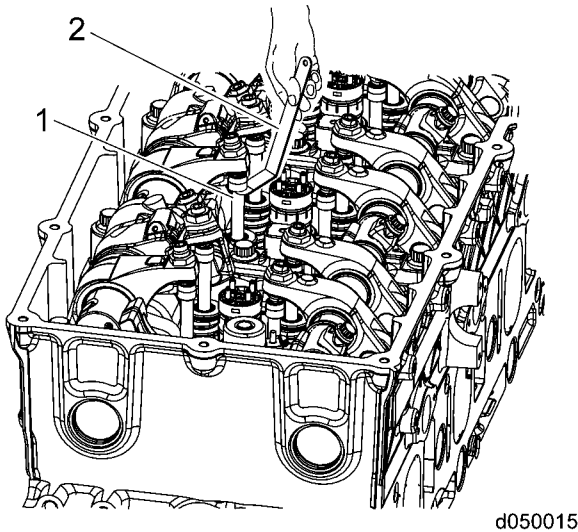
<b>Initial Valve Lash and Measurement/Adjustment Period</b>
Adjust at 100,000 km (60,000 mi), at 300,000 km (180,000 mi), and then every 300,000 km (180,000 mi)

**Table 1 Measurement/Adjustment Period**

Adjust the valves as follows:

1. Steam clean the engine.
2. Disconnect the starting power for the engine.
3. Remove the rocker cover.
4. Bar the engine over until cylinder number one is at top dead center (TDC) compression stroke.

5. Lash intake valves one, two and four to 0.4 mm (0.016 in.). See Figure 1.
6. Lash exhaust valves one, three and five to 0.6 mm (0.024 in.). See Figure 1.
7. Bar the engine over 360° until cylinder number six is at TDC compression stroke.



1. Feeler Gauge Location between Rocker Arm and Valve    2. Feeler Gauge

**Figure 1 Feeler Gauge**

8. Lash intake valves three, five, and six to 0.4 mm (0.016 in.). See Figure 1.
9. Lash exhaust valves two, four and six to 0.6 mm (0.024 in.). See Figure 1.
10. Torque the locknut valve adjusting screw to 50 N·m (37 lb·ft).
11. Remove any tools used for this procedure.
12. Set engine brake.
13. Install the rocker cover.
14. Reconnect the battery power to the engine.

## **ADDITIONAL SERVICE INFORMATION**

Additional service information is available in the Detroit Diesel *DD15 Workshop Manual*, (DDC-SVC-MAN-0002). The next revision to this manual will include the revised information.

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